

COORDINATE GEOMETRY CONCEPTS

The Coordinate Geometry (COGO) Concepts Course was developed as a self help program to aid employees in the development of their knowledge of GEOPAK coordinate geometry syntax.

We found many of our employees have difficulty in the implementation of syntax lines or command lines, especially in converting existing alignments or given data into input files.

The course was developed to help a person write a line of syntax by breaking it down into its components. The course is broken down into four sections (1) Points; (2) Curves, (3) Spirals, and (4) Chains and Alignments.

By using the GEOPAK general term conventions, the exercises in each section build a foundation for understanding by assembling the various parts of a command line in the correct sequence. We feel confident that the course will benefit anyone who is having difficulty in a GEOPAK Course or with a GEOPAK Test.

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Instruction for part one Points

It is important that the information be read. The exercises in this part are based on the information that it contains.

WRITE OUT ALL SYNTAX LINES

- 1. All problems are to be answered by writing out the lines of syntax. You are not to use the machine GEOPAK.**
- 2. Exercises 1 through 4 on sheet 8, require four solutions each, one solution for each format (A, B, C & D)**
- 3. Exercises 5 through 8 require only one solution or one (1) line of syntax (format A).**
- 4. Special attention to sheet 11 for Intrinsic Precision* values**
- 5. Each line of the exercise on sheet 12 is all parts of the same group input. This will require two input files one in format A and one in format B.**
- 6. Complete exercises on page 13 with one line syntax.**

Your written solutions can be mailed or faxed to Glenn Plott in Roadway Design CADD Support for evaluation. Your solutions will be evaluated and returned to you with suggestions for correcting any mistakes if any. You will then be advised to go to the next unit.

FOR QUESTIONS (919) 250 4016 EXT 313 for Glenn

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***(a special packet on Intrinsic Precision, not part of this course is available by request)**